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DOCKET NO.: APPLICANTS:

1313/1H506-US1

Roger Bruce HARDING et al.

FILING DATE: SERIAL NO.: October 31, 2001

AL NO.: 10/002,399



SHEET 2 OF 2

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLAS	S SUBCLASS	FILING DATE
dr 35.	4,845,206	Jul. 4, 1989	Thomson et al.	536	84	Mar. 21, 1987
36.	4,941,943	Jul. 17, 1990	Edelman et al.	162	9	Jan. 27, 1988
37.	5,013,832	May 7, 1991	Raehse et al.	536	90	Aug. 17, 1987
38.	5,476,668	Dec. 19, 1995	Kobayashi et al.	424	494	Dec. 17, 1993
JU 39.	5,858,021	Jan. 12, 1999	Sun et al.	8	125	Sep. 26, 1997

#### **FOREIGN PATENT DOCUMENTS**

*EXAM <u>INITIAI</u>		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	S SUBCLASS	TRANS YES	LATION NO
de	40. 41.	DDR 146,462 DDR 148 342	Nov. 2, 1981 May 20, 1981	Germany Germany	C08B C08B	11/12 15/04	X X	
ł	42.	WO 00/39390	Jul. 6, 2000	PCT	D21C	9/00	Χ	
	43.	WO 00/32637	Jun. 8, 2000	PCT	C08B	11/20	Χ	
- 1	44.	WO 00/71586	Nov. 30, 2000	PCT	C08B	11/08	Χ	
du	<b>45</b> .	WO 00/65145	Nov. 2, 2000	PCT	D21C	3/02	Χ	

# OTHER REFERENCES (INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)

# \*EXAMINER INITIALS

46. Encyclopedia of Polymer Science and Engineering, Vol. 3, John Wiley & Sons. pp. 226-269.

Herrick, Franklin W., High Molcular Weight Fibrous Cellulose Di- and Triacetates, International Dissolving and Specialty Pulps, 1983, TAPPI Proceedings, pp. 89-98.

Sarkar, Nitis, Kinetics of thermal gelation of methylcellulose and hydroxypropylmethylcellulose in agueous

Sarkar, Nitis, Kinetics of thermal gelation of methylcellulose and hydroxypropylmethylcellulose in aqueous solutions, Carbohydrate Polymers 26 (1995) pp. 195-203.

Sarkar, Nitis, Thermal Gelation Properties of Methyl and Hydroxypropyl Methylcellulose, Journal of Applied Polymer Science, Vol. 24 (1979) pp. 1073-1087.

EXAMINER: \_\_\_\_\_ DATE CONSIDERED: 8/6/0 3

\*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE

(REV. 7-80)

# LIST OF REFERENCES CITED BY APPLICANT

(Use Several Sheets if Necessary)

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Applicants: Roger Bruce HARDING, et al.

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Filing Date: October 31, 2001

# **U.S. PATENT DOCUMENTS**

*EXAMINER INITIALS	DOCUMENT NUMBER	<u>DATE</u>	NAME	CLASS	SUBCLASS	FILING DATE
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	NUMBER  1,415,023 1,704,304 1,854,331 1,860,432 1,938,360 2,038,678 2,067,946 2,090,808 2,241,397 2,488,631 2,636,879 3,131,176 3,131,177 3,284,441 3,322,748 3,457,047 3,652,539 3,926,951 4,001,211 4,063,018 4,084,060 4,096,326 4,250,305 4,292,426 4,339,573 4,399,275 4,460,766 4,491,661	May 9, 1922 Mar. 5, 1929 Apr. 19, 1932 May 31, 1932 Dec. 5, 1933 Apr. 28, 1936 Jan. 19, 1937 Aug. 24, 1937 May 13, 1941 Nov. 22, 1949 Apr. 28, 1953 Apr. 28, 1964 Apr. 28, 1964 Apr. 28, 1966 May 30, 1967 Jul. 22, 1969 Mar. 28, 1972 Nov. 16, 1975 Jan. 4, 1977 Dec. 13, 1977 Apr. 11, 1978 Jun. 20, 1978 Feb. 10, 1981 Sep. 29, 1981 Jul. 13, 1982 Aug. 16, 1983 Jul. 17, 1984 Jan. 1, 1985	Donohue Sessler Dosne Richter Traill Richter et al. Picton Richter Fordyce et al. Kunz Branan et al. Klug Klug Bishop et al. Tokimatsu et al. Tokimatsu et al. LIndenfors et al. Sarkar Ohnaka et al. Glass, Fr. et al. Reid Saito et al. Orii et al. Wüst et al. Sears Felcht et al. Bredereck et al.	260 260 260 260 260 260 260 260 260 260	152 152 152 152 152 231 231 231 231 231 231 231 231 231 23	June 9, 1921 Feb. 6, 1926 Apr. 26, 1929 Aug. 22, 1928 July 2, 1930 Feb. 7, 1934 Jun. 19, 1935 Feb. 10, 1934 Feb. 13, 1937 May 19, 1945 Apr. 27, 1950 Apr. 13, 1960 Apr. 13, 1960 Jul. 26, 1965 Feb. 20, 1962 Feb. 20, 1962 Feb. 20, 1962 Mar. 20, 1970 Mar. 11, 1974 Oct. 1, 1975 Apr. 2, 1976 Nov. 18, 1976 Oct. 13, 1976 Aug. 20, 1979 May 7, 1980 Jul. 7, 1980 Jul. 7, 1980 Jul. 7, 1982 Oct. 27, 1983
28. 29. 30. 31. 32. 33. (M. 34.	4,491,661 4,507,474 4,508,895 4,526,961 4,547,570 4,661,589 4,820,813	Jan. 1, 1985 Mar. 26, 1985 Apr. 2, 1985 Jul. 2, 1985 Oct. 15, 1985 Apr. 28, 1987 Apr. 11, 1989	Bredereck et al. Raehse et al. Balser Perplies et al. Garner Adams et al. Schulz	536 536 536 536 536 536	94 97 91 98 84 91 84	Jan. 24, 1984 Feb. 13, 1984 Sep. 30, 1983 Oct. 20, 1983 Jul. 2, 1985 Feb. 12, 1988



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SHEET 1 OF 1 (REV. 7-80)

#### LIST OF REFERENCES CITED BY APPLICANT

(Use Several Sheets if Necessary)

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**CONFIRMATION NO: 1039** 

# **U.S. PATENT DOCUMENTS**

\*EXAMINER **INITIALS** 

**DOCUMENT** 

DATE NUMBER

NAME

**CLASS SUBCLASS** 

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1. 5,550,189

8/27/96

Qin et al.

525 527

536

54.3, 54.31

10/29/93

FOREIGN PATENT DOCUMENTS

\*EXAMINER INITIALS

**DOCUMENT** NUMBER

DATE

COUNTRY

CLASS SUBCLASS

**TRANSLATION** 

YES NO

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2.0879827

11/25/98

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C08B 11/12

# **OTHER REFERENCES** (INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)

### \*EXAMINER INITIALS

M

- "Sodium carboxymethyl-cellulose preparation includes mercerising cotton lint with aq. sodium hydroxide and treatment with sodium mono:chloroacetate" Database WPI, Derwent Publications Ltd., London, GB, AN 1981-07313D, XP002195479 & SU 737 404 A (AS UZB CHEM IND) June 4, 1980.
- 4. "Preparation of carboxymethyl-cellulose by mercerising cellulose, in aq. alkali and treating prod. with sodium monochloroacetate" Database WPI, Derwent Publications Ltd., London, GB, AN 1983-703974, XP002195480 & SU 952 853 A (Moscow Gubkin Petrochem.) August 23, 1982.
- 5. "Water soluble carboxymethyl-cellulose obtained by mercerisation with suspension of sodium hydroxide in ethanol or propanol, alkylation, ripening and purification" Database WPI, Derwent Publications Ltd., London, GB, AN 1984-099888, XP002195481 & SU 1 028 676 A (Synth. Resins Res In), July 15, 1983.

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DATE CONSIDERED:

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## **U.S. PATENT DOCUMENTS**

*EXAMINER	DOCUMENT			01.400		SU INIC DATE
INITIALS	NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
M	1. 2,228,127	1/7/41	Richter	8	105	4/18/38
7)	2. 2,687,352·	8/24/54	Hoos	92	13	2/21/46
<b>\</b>	3. 5,140,099	8/18/92	Bostrom et al.	536	91	3/12/90
du	4. 5,385,607	1/31/95	Kiesewetter et al.	106	197.1, 805,	1/27/93
<b>W</b> *					809, 823	
				536	90-92, 95-96	5,
					99-100	
M	5. 5,410,034	4/25/95	Isogai et al.	536	56, 57,	2/24/94
•	· F				124	
ph	6. 5,550,189	8/27/96	Qin et al.	525	54.3	10/29/93
<i>y</i> -						

### **FOREIGN PATENT DOCUMENTS**

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
dy	7. 0390240 🗸	10/3/90	EP	C08B	11/193 101/30	
du	8. 403002201 / 9. 0539979 /	1/8/91 5/5/93	JP EP	C08B	11/93 11/193,	X (Abstract)  RECEIVED
<i>w</i> ~					11/20	MEGETVED

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OTHER REFERENCES
(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.) TECH CENTER 1600/2900

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